

## 8312 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG stranded (7x30) tinned copper conductors, semi-rigid PVC insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Conductors	# Pairs	AWG	Stranding	Conductor Material
1	12	22	7x30	TC - Tinned Copper

Total Number of Conductors: 25

**Insulation****Insulation Material:**

Insulation Material	Wall Thickness (mm)
S-R PVC - Semi-Rigid Polyvinyl Chloride	0.279

**Outer Shield****Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.016

**Overall Cable**

Overall Nominal Diameter: 11.557 mm

**Pair****Pair Color Code Chart:**

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
Single Conductor	Gray

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -30°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2464)

## 8312 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications

Bulk Cable Weight:	191.978 Kg/Km
Min. Bend Radius/Minor Axis:	120.650 mm

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Flame Test

CSA Flame Test:	FT4
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
114.835

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

Capacitance (pF/m)
206.703

## Nominal Velocity of Propagation:

VP (%)
60

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
49.215

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
13.7802

## Max. Operating Voltage - UL:

Voltage
300 V RMS

## Max. Recommended Current:

Current
1.5 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8312 060100	30 MT	6.622 KG	CHROME	C	12 PR, 1#22 PVC SHLD PVC
8312 0601000	305 MT	67.132 KG	CHROME	C	12 PR, 1#22 PVC SHLD PVC

## METRIC MEASUREMENT VERSION

**8312 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232 Applications**

8312 060500	152 MT	32.659 KG	CHROME	C	12 PR, 1#22 PVC SHLD PVC
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**Notes:**

C = CRATE REEL PUT-UP.

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